

CLAIM AMENDMENTS

1. (Currently amended) A high-pressure discharge lamp for vehicle headlights having a discharge vessel, which is sealed in a gas-tight manner, and in which are arranged two electrodes and an ionizable filling for producing a gas discharge, wherein the ionizable filling comprises xenon and halides of the metals sodium, scandium, indium and zinc,

the concentration of sodium iodide ranges from 0.0083 to 0.0109 mg/mm³;

the concentration of scandium iodide ranges from 0.0060 to 0.0078 mg/mm³;

the concentration of zinc iodide ranges from 0.0010 to 0.0013 mg/mm³; and

the concentration of indium iodide is about 0.0001 mg/mm³.

2. (Original) The high-pressure discharge lamp as claimed in claim 1, wherein the halides are iodides.

3. (Currently amended) The high-pressure discharge lamp as claimed in claim 2, wherein

the volume of the discharge vessel has a value in the range from 23 mm³ to 30 mm³, and

the cold filling pressure of xenon has a value in the range from 9000 hPa to 13000 hPa,₅

~~-the content of sodium iodide has a value in the range from 0.15 mg to 0.30 mg,~~

~~-the content of scandium iodide has a value in the range from 0.10 mg to 0.25 mg,~~

~~-the content of zinc iodide has a value of less than or equal to 0.10 mg; and~~

~~-the content of indium iodide has a value of less than or equal to 0.05 mg.~~

4. (Original) The high-pressure discharge lamp as claimed in claim 2, wherein the thickness or the diameter of the electrodes has a value in the range from 0.27 mm to 0.36 mm, and the distance between the electrodes is less than 5 mm.
5. (Currently amended) The high-pressure discharge lamp as claimed in claim 2, wherein

the high-pressure discharge lamp has an outer bulb (16) which surrounds the discharge vessel (10),

the discharge vessel (10) is made of silica glass and has a volume in the range from 23 mm³ to 30 mm³,

the thickness or the diameter of the electrodes (11, 12) has a value in the range from 0.27 mm to 0.36 mm,

the distance between the electrodes (11, 12) is less than 5 mm, and

the cold filling pressure of xenon has a value in the range from 9000 hPa to 13000 hPa,_

~~the content of sodium iodide has a value in the range from 0.15 mg to 0.30 mg,~~

~~the content of scandium iodide has a value in the range from 0.10 mg to 0.25 mg,~~

~~the content of zinc iodide has a value of less than or equal to 0.10 mg, and~~

~~the content of indium iodide has a value of less than or equal to 0.05 mg.~~

6. (Cancel) The high-pressure discharge lamp as claimed in claim 1, wherein the molar ratio of sodium to scandium has a value in the range from 3 to 6.

7. (Currently amended) The high-pressure discharge lamp as claimed in claim 2, wherein ~~there is approximately the following linear relationship between the cold filling pressure of the xenon and the content of zinc iodide:~~

$$Y = -0.015 \underline{-1.5 \times 10^{-5}} X + 0.207$$

where X is the numerical value of the cold filling pressure of xenon in hPa, and Y is the content by weight of zinc iodide in mg.

CLAIM STATUS:

Claim 1: Currently amended

Claim 2: Original

Claim 3: Currently amended

Claim 4: Original

Claim 5: Currently amended

Claim 6: Canceled

Claim 7: Currently amended